A3 Sub B3

4. (Amended) An apparatus according to claim 2 [or 3], wherein the source of NO_2 is a catalyst which is effective to convert at least a portion of the NO in the exhaust gases to NO_2.

A4

6. (Amended) An apparatus according to claim 1 [any one of the preceding claims], arranged such that at least 50wt% of particulate matter is trapped and subsequently combusted when operating conditions in the same or subsequent operating cycle are improved.

7. (Amended) An apparatus according to claim 1 [any one of the preceding claims], in combination with NOx control means [, preferably a NOx absorbent].

8. (Amended) An apparatus according to claim 13 [7], wherein said NOx absorbent is effective to trap NOx at relatively low exhaust gas temperatures, and releases NOx when the exhaust gas temperature exceeds about 250°C for conversion [and/or] or consumption in the combustion of particulate matter.

Sub B4

9. (Amended) A method of controlling emissions [, especially particulate matter,] from diesel engine exhaust gases by trapping and subsequently combusting said particulate matter, comprising trapping at most 85wt% of particulate matter in said exhaust gas in particulate trapping means and combusting said trapped particulate matter in the presence of NO_2 and causing a portion of said exhaust gases to by-pass said particulate trapping means.

Please add the following new claims:

A6 Sub B5

11. (Newly added) An emission control exhaust gas aftertreatment apparatus for exhaust gases from light duty diesel engines comprising a source of NO_2, a particulate trap, and an exhaust gas by-pass, wherein a portion of the exhaust gases do not pass through the trap, such that at most 85% of engine-out particulates are collected on the trap and combusted in the presence of said NO_2 in said trap.

12. (Newly added) An apparatus according to claim 3, wherein the source of NO_2 is a catalyst which is effective to convert at least a portion of the NO in the exhaust gases to NO_2.

13. (Newly added) An apparatus according to claim 7, wherein said NOx control means is an NOx absorbent.

Respectfully submitted,

Paul F. Prestia, Reg. No. 23,031
Christopher R. Lewis, Reg. No. 36,701
Attorneys for Applicants

CRL/nr

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Suite 301, One Westlakes, Berwyn
P.O. Box 980
Valley Forge, PA 19482
(610) 407-0700

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Kathleen Libby